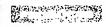
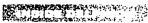
Appl. No. 09/849,781

# DELPHION

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## **Derwent Record**

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Functional organic thin film - comprising at least one amphoteric organic Derwent Title:

molecule which is an active phenyl ester deriv.

Original Title: JP02272081A2: FUNCTIONAL ORGANIC THIN FILM

FUJI PHOTO FILM CO LTD Standard company Assignee:

Other publications from FUJI PHOTO FILM CO LTD

(FUJF)...

None Inventor:

1990-373620 / 199050 Accession/

Update:

IPC Code: B01F 17/20; C07C 381/12; C09K 3/00; C12N 11/02; G01N

27/33;

**Derwent Classes:** B04; D16; E14; L03; S03; B05;

B04-B02C2(Oxidoreductases), B04-B04A(Proteins, nucleic Manual Codes:

acids, cells general), B04-B04C(Antigens, general antibody

(pre-94)), B10-A01(1 or 2 ring aromatics and (cyclo) aliphatics with onium (e.g. sulfonium, iodonium) or free radical), D05-A01A3(Industrial fermentation - non-polymeric organic compound carrier), D05-H10(Fixing biological substances or cells to a carrier and the carriers themselves),

E10-A01(Aromatic and (cyclo)aliphatic - with onium(s), aminimide, ylid, free radical), L03-D01D(Opto-electronic

materials), S03-E14H4(Immunoassay)

(JP02272081A) A functional organic thin film consisting of monomolecular film or Derwent multilayer of amphoteric organic molecules comprises at least one kind of Abstract:

amphoteric organic molecule which is an active ester deriv. formula (I). In (I), R = 13 or more C aliphatic gp. or fluoroalkyl group; R1 and R2 = alkyl gp. and X = anion gp.

EMBODIMENT: Functional quest molecules such as enzyme (e.g. glucose

oxidase, amino acid oxidase, etc.), protein (antigen, antibody, etc.), fluorescent dye,

etc. can be immobilised in high density on the functional organic thin film, forming

functional organic thin film.

USE/Advantage - Optional functional cpd: such as enzyme, protein etc. can be chemically immobilised on the functional organic thin film, and high efficiency chemical reaction or physical change caused by the functional cpd. immobilised on the thin film can be utilised for the formation of sensor image, information recording,

energy conversion, etc.

Images:



Dwg.0/0

Family:

PDF Patent

Pub. Date Derwent Update Pages Language IPC Code

☑ JP02272081A \* 1990-11-06

199050

English

B01F 17/00

Local appls.: <u>JP1989000094670</u> Filed:1989-04-14 (89JP-0094670)

**Priority Number:** 

Application NumberFiledOriginal TitleJP19890000946701989-04-14FUNCTIONAL ORGANIC THIN FILM

Chemical

Show chemical indexing codes

Indexing Codes:

Markush Show Marki

Show Markush numbers

Compound Numbers:

Registry

03[M1]:**1327U 0502U** 

Numbers:

01[M2]:1327U 0502U 01[M3]:1327U 0502U

02[M6]:**1327U 0502U** 

Title Terms:

FUNCTION ORGANIC THIN FILM COMPRISE ONE AMPHOTERIC ORGANIC

MOLECULAR ACTIVE PHENYL ESTER DERIVATIVE

Pricing Current charges

**Derwent Searches:** 

Boolean | Accession/Number | Advanced

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(51) Int. CI

C09K 3/00

B01F 17/20,

B01F 17/22, C07C381/12, C12N 11/02, G01N 27/333,

G01N 33/544 G01N 33/543,

(21) Application number:

01094670

(71) Applicant: FUJI PHOTO FILM CO LTD

(22) Date of filing:

14.04.1989

(72) Inventor: MIYASAKA TSUTOMU

#### (54) FUNCTIONAL ORGANIC THIN FILM

### (57) Abstract:

PURPOSE: To provide the title thin film capable of immobiliking thereon in high density a variety of functional compounds such as photosensitive coloring matters, oxidizing and reducing compounds and biologically active proteins, consisting of monomolecular film or cumulated film consisting of amphiphatic organic molecule including specific active ester derivative.

CONSTITUTION: The objective thin film consisting of

monomolecular film or cumulated film consisting of amphiphatic organic molecule including active ester derivative of the formula [R is >13C aliphatic group (pref. ≤60C alkyl or fluoroalkyl); R<sub>1</sub> and R<sub>2</sub> are each alkyl or fluoroalkyl (esp. pref. methyl or fluoromethyl); X is halogen ion, sulfate ion or nitrate ion].

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$$R-C = 0 \qquad \bigoplus_{R} R^{1} \qquad X^{\Theta}$$